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PRODUCTION OF DIFFRACTION GRATING

PUB. NO.: 06-011607 [JP 6011607 A]

PUBLISHED: January 21, 1994 (19940121)

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APPL. NO.: 04-170836 [JP 92170836]

FILED: June 29, 1992 (19920629)

#### ABSTRACT

PURPOSE: To produce a diffraction grating capable of diffracting the light in the wide range of wavelength by laminating  $\geq 2$  kinds of polymer layers having a different refractive index so that the thicknesses of the layers are varied.

CONSTITUTION: High-refractive-index polymer layers 1, 3 and 5 and low-refractive-index polymer layers 2, 4 and 6 are alternately laminated by coating to form a layer consisting of  $\geq 2$  kinds of polymers having a different refractive index. The wavelength of the diffracted light is controlled to 800-2000nm by varying the thicknesses of the layers, and a heat reflecting film transmitting visible light and reflecting heat rays is obtained in this case. The laminate is applicable to a color filter for reflecting a light of specified wavelength in the visible region, a UV cutoff film, etc.